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ANSWER 84 OF 97 CA COPYRIGHT 2001 ACS
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ΑN
    80:51832 CA
    Calcium silicate heat-insulating material
TI
ΙN
    Ito, Keiichi
PA
    Aica Kogyo Co., Ltd.
so
    Japan. Kokai, 5 pp.
    CODEN: JKXXAF
DΤ
    Patent
LA
    Japanese
NCL
    22(3)C3
CC
    58-3 (Cement and Concrete Products)
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    PATENT NO.
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                                       APPLICATION NO.
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-----JP 48085622 A2 19731113 JP 1972-17886 19720221 AB In manufg. Ca silicate heat-insulating material, small particles produced as a by-product in the manuf. of ferrosilicon and contg. silicic acid at high temp. are used as a SiO2 raw material. The small particles

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are blended with slaked lime, quicklime, or a mixt. of the 2 so that the CaO/SiO2 ratio is 0.2-1.5. The blend is mixed well and thoroughly with water contg. 0.20% dispersed solid fibers by kneading or stirring, molded, and treated at satd. steam pressures, 5-25 kg/cm2 and 151-223.degree., for 4-30 hr to yield Ca silicate heat-insulating material. Thus, asbestos (8.5 parts) was dispersed in water (153 parts), and mixed with a mixt. of slaked **lime** (CaO 71%) 17 parts and small particles (SiO2 88.0, CaO 2.53, MgO 0.10, Fe2O3 1.36, Al2O3 0.60, C 2.70, ignition loss 3.57, Na 0.57, K 0.23, and SO3-2 0.32%) 68 parts by kneading or stirring, molded or extruded, treated at satd. steam pressure 5 kg/cm2 and 1510 for 30 hr, and hardened. The bulk d. was 0.43 g/cm3, bending strength 18 kg/cm2, thermal cond. 0.07-0.08 kcal/m hr .degree.C

аt 25.degree., impact strength 2.3 kg/cm2, and elasticity 4000 kg/cm2.

STcalcium silicate heat insulating

ΙT Thermal insulators